

PHILIP MORRIS USA  
RESEARCH AND DEVELOPMENT DEPARTMENT

SWITZERLAND TEST #165

MR4-06CS  
PM6-06CS  
MR8-06CS  
PM8-06CS

DISTRIBUTION

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2001054716

SWITZERLAND TEST #165

The following cigarette brands from Switzerland (Neuchatel) were received at R & D and submitted for analyses on March 1, 1976. These cigarettes were of January, 1976 production.

Marlboro Long Size 20's (Box) - Switzerland  
Philip Morris Multifilter King Size 20's  
(Plastic Pack) - Switzerland  
Marlboro 100 20's (Soft Pack) - Switzerland  
Philip Morris Multifilter 100 20's (Soft Pack) -  
Switzerland

The Marlboro long size cigarettes (Switzerland) were not different from the previous average in any of the parameters tested.

The Philip Morris Multifilter king size cigarettes (Switzerland) were different from the previous average only in total alkaloids.

The Marlboro 100 cigarettes (Switzerland) were not different from the previous average in any of the parameters tested.

The Philip Morris Multifilter 100 cigarettes (Switzerland) were not different from the previous average in any of the parameters tested.

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SWITZERLAND TEST #165

	Marlboro Long Size 20's (Box)			Philip Morris Multifilter King Size 20's (Plastic Pack)			Marlboro 100 20's (Soft Pack)			Philip Morris Multifilter 100 20's (Soft Pack)	
	Current	Prev. Avg.	U.S. <sup>2</sup>	Current	Prev. Avg.	U.S. <sup>2</sup>	Current	Prev. Avg.	U.S. <sup>2</sup>	Current	Prev. Avg.
<u>Smoke</u>											
Butt length, mm	25	25	26	27	27	33	33	33	34	33	33
FTC Tar, mg/cigt.	17.9	17.8	17.4	17.0	15.8	12.4	17.9	17.7	16.9	14.0	13.9
TPM, mg/cigt.	22.5	22.6	22.0	20.4	19.6	15.1	21.1	21.3	20.3	16.4	16.3
Nicotine, mg/cigt.	1.13	1.12	1.05	1.09	0.97	0.90	1.21	1.33	1.07	0.88	0.89
Water, mg/cigt.	3.5	3.7	3.5	2.3	2.8	1.8	2.0	2.3	2.3	1.5	1.5
Puffs/cigt.	8.1	8.5	8.2	8.3	8.4	8.1	10.0	10.2	9.3	9.5	10.0
Filtration lit., %	44	44	47	45	45	45	49	45	49	50	51
<u>Cigarette</u>											
Total RTD, in. of H <sub>2</sub> O	4.1	4.1	4.5	3.9	4.2	2.8	4.1	4.1	4.9	5.4	5.4
mm of H <sub>2</sub> O	104	104	114	99	107	71	104	104	124	137	137
Static Burn. time, min.	7.3	7.7	7.6	6.5	7.1	7.3	6.5	7.3	6.8	6.7	7.1
Length, mm	79.3	79.3	79.0	84.1	84.0	84.1	99.2	99.3	99.4	99.1	99.0
Circumference, mm	25.1	25.0	24.9	24.6	24.6	25.0	24.6	24.6	24.7	24.6	24.6
Diameter, mm	8.0	8.0	7.9	7.8	7.8	8.0	7.8	7.8	7.9	7.8	7.8
<u>Paper</u>											
Porosity, sec.	11	13	20	11	13	14	11	13	13	30	30
<u>Filter</u>											
RTD, in. of H <sub>2</sub> O	2.7	2.5	2.7	2.5	2.5	1.9	2.6	2.5	2.9	3.2	3.0
mm of H <sub>2</sub> O	69	64	69	64	64	48	66	64	74	81	76
Inner, in. of H <sub>2</sub> O	-	-	-	1.6	1.6	1.0	-	-	-	1.7	1.6
mm of H <sub>2</sub> O	-	-	-	41	41	25	-	-	-	45	41
Outer, in. of H <sub>2</sub> O	-	-	-	0.9	0.9	0.9	-	-	-	1.5	1.4
mm of H <sub>2</sub> O	-	-	-	23	23	23	-	-	-	38	35
Length, mm	17.9	17.9	19.0	20.3	20.4	25.3	24.9	25.0	26.9	25.2	25.2
Inner	-	-	-	12.6	12.8	10.3	-	-	-	12.8	12.6
Outer	-	-	-	7.7	7.6	15.0	-	-	-	12.4	12.6
Weight, g	0.13	0.13	0.14	0.22	0.22	0.36	0.18	0.18	0.17	0.26	0.25
Inner	-	-	-	0.17	0.17	0.14	-	-	-	0.17	0.17
Outer	-	-	-	0.05	0.05	0.22	-	-	-	0.09	0.08
Carbon, mg/plug	-	-	-	78	79	66	-	-	-	80	76
Tipping paper length, mm	22	22	23	24	24	30	12	30	31	30	30
Dilution, %	-	-	-	-	-	-	-	-	None	-	-
<u>Filler</u>											
Total alkaloids, %	1.55	1.53	1.43	1.46	1.31	1.46	1.55	1.55	1.56	1.14	1.11
Total reducing sugars, %	7.4	6.7 <sup>3</sup>	6.6	7.7	7.5	5.5	7.9	7.2 <sup>3</sup>	7.2	10.1	9.6 <sup>3</sup>
Wt. of tob., 1,000 cigts., g	780	799	730	779	796	700	921	936	850	935	943
1,000 cigts., lbs.	1.7176	1.7589	1.6076	1.7154	1.7534	1.5416	2.0278	2.0608	1.8716	2.0586	2.0757
Rod Density, g/cc	0.253	0.261	0.245	0.254	0.261	0.239	0.257	0.261	0.242	0.263	0.265
C.V., cc/10 g	30	30	36	29	31	37	30	31	36	35	33
C.V., cc/10 g (Corrected to 12% D.V.)	37	37	41	36	35	41	37	37	40	37	37
Over Volatiles, %	14.3	14.3	13.6	14.2	14.2	13.4	14.4	14.1	13.6	12.7	13.2

<sup>1</sup>Equilibrated at 75°F and 60% R.H. for 48 hrs.

<sup>2</sup>Data from C.I. No. 3-76.

<sup>3</sup>Results of Test #164, dated March 9, 1970, where a change was noted.

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